



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D4732-41
Job Sheet 201513



Part No: D4732-41

Job Qty: 12 pcs

Part Name: Label



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 10/4/19

Job Tracking No:

Due Date: 10/25/19

Created By: Chantal Lavoie

Type: Stock

Description:

Note: DWG REV B SHEET 21 IPP REV:A NEW ISSUE 13-01-31 JLM VERIFIED BY:DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	12 pcs		10/25/19	0.00	0.00	Purchasing - 1		ME OCT 21 2019
							Purchasing - 2		
							Purchasing - 3		
110	Packaging 2-1 - Recelve - B4B	12 pcs		10/25/19	0.00	0.00	Packaging 2 - 1 - B4B		ME OCT 21 2019
							Packaging 2 - 2 - B4B		
							Packaging 2 - 3 - B4B		
							Packaging 2 - 5 - B4B		
							Packaging 2 - 4 - B4B		
							Packaging 2 - 6 - B4B		
							Packaging 2 - 7 - B4B		
							Packaging 2 - 8 - B4B		
							Packaging 2 - 9 - B4B		
							Packaging 2 - 10 - B4B		
							Packaging 2 - 11 - B4B		
							Packaging 2 - 12 - B4B		
							Packaging 2 - 13 - B4B		
							Packaging 2 - 14 - B4B		
							Packaging 2 - 15 - B4B		
							Packaging 2 - 16 - B4B		
							Packaging 2 - 17 - B4B		
							Packaging 2 - 18 - B4B		
							Packaging 2 - 19 - B4B		
							Packaging 2 - 20 -		



Container No: S224718



Part: D4732-41

Job No: 201513

Serial No/Batch: S224718

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 10/21/19

Plex 10/4/19 1:42 PM Dart.Lavoie.Chantal

10/4/2019

[Dart Hawkesbury] Job Sheet - Lavoie, Chantal

					B4B	
					Packaging 2 - 21 - B4B	
					Packaging 2 - 22 - B4B	
					Packaging 2 - 23 - B4B	
					Packaging 2 - 24 - B4B	
					Packaging 2 - 25 - B4B	
					Packaging 2 - 26 - B4B	
					Packaging 2 - 27 - B4B	
					Packaging 2 - 28 - B4B	
					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
120	QC 6	12 pcs	10/25/19	0.00 0.00	QC 6 - 9	
					QC 6 - 68	
					QC 6 - 61	
					QC 6 - 40	
					QC 6 - 81	
130	Packaging 3-1 - Stock - B4B	12 pcs	10/25/19	0.00 0.00	Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	

DAS
NOV 01 2019 40
8-89

DAS
58 NOV 01 2019
Q.1.1

Plex 10/4/19 1:42 PM Dart.Lavoie.Chantal

					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	
140	QC 21 - SA	12 pcs	10/25/19	0.00 0.00	QC 21 - SA - 21	D43
					QC 21 - SA - 70	21
					QC 21 - SA - 53	9-83

NOV 04 2019

Part Op 100 - Purchasing
 Descriptions: 110 - Receive & Inspect for Damage & Mat'l Certs
 120 - QC6- All purchased or subcontracted products
 130 - Identify as per dwg & Stock Location: *mfoas*
 140 - QC21- Final Inspection - Work Order Release

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D4732-41P	Label	12 pcs (1 ea)	100-Purchasing	S224713

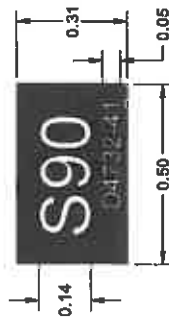
Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	D4732-41P	12	0	0

Part Specifications

Specifications could not be found.

Plex 10/4/19 1:42 PM Dart.Lavoie.Chantal



D4732-41 LABEL

RELEASED
2013-01-30

- NOTES:
- 1) MATERIAL: MAKE FROM 3M 7 MIL MASKING FILM #8522CP OR AVERY IPM #2031 ARIAL FONT WHITE LETTERS ON BLACK ADHESIVE BACK VINYL
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER DART OSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: N/A

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D4732	SHEET 21 OF 21
APPROVED		TITLE	SCALE
DE APPR.		LABELS	NTS
DATE	12.11.30	COPYRIGHT © 2013 BY DART AEROSPACE LTD	
THIS DOCUMENT IS UNCLASSIFIED AND IS AVAILABLE TO THE PUBLIC ON THE BASIS OF THE INFORMATION CONTAINED HEREIN			
UNCLASSIFIED//FOR RELEASE			



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB044697



Supplier: STU002-VC
Studio de Lettrage 2001
210 Main West
Hawkesbury
ON
K6A 2H6 Canada
Phone: 613 632 5449
Fax: 613 632 9491

Attention: Grace, Batista

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB044697

PO Date: 10/7/19

Due Date: 10/21/19

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: 613-623-5200 Ext: 242
Fax: 613-632-1053
clavoie@dartaero.com

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	201515	D3428-1P			Placard D3428-1 As Per Dwg. D3428 Rev. A	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs	\$80.00 OCT 18 2019
2	201475	D5079-1P			Placard, EAPS : AS PER DWG D5079 REV. B	Firmed X24	-	10/21/19	24 pcs	0 pcs	24 pcs	\$6.6666/pcs	\$160.00 OCT 18 2019
3	201493	D4732-1P			Label : Various STC's As Per Dwg 4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs	\$80.00 OCT 18 2019
4	201503	D4732-3P			Label : Various STC's As Per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs	\$80.00 OCT 18 2019
5	201508	D4732-5P			Label : Various STC's As Per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs	\$80.00 OCT 18 2019
6	201509	D4732-7P			Label : Various STC's As Per Dwg 4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs	\$80.00 OCT 18 2019
7	201510	D4732-9P			Label : Various STC's As Per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs	\$80.00 OCT 2-1 2019
8	201512	D4732-11P			Label : Various STC's As Per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs	\$80.00 OCT 2-1 2019

Plex 10/7/19 8:32 AM Dart.Lavoie.Chantal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB044697



Items													
Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
9	201494	D4732-13P			Label : Various STC's As Per Dwg D4732 Rev.B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs OCT 2 1 2019	\$80.00
10	201495	D4732-15P			Label : Various STC's As Per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs OCT 2 1 2019	\$80.00
11	201496	D4732-17P			Label : Various STC's As per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs OCT 2 1 2019	\$80.00
12	201497	D4732-19P			Label : Various STC's As Per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs OCT 2 1 2019	\$80.00
13	201498	D4732-21P			Label : Various STC's As Per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs OCT 2 1 2019	\$80.00
14	201499	D4732-23P			Label : Various STC's As Per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs OCT 2 1 2019	\$80.00
15	201500	D4732-25P			Label : Various STC's As Per Dwg D4732 Rev. B.	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs OCT 2 1 2019	\$80.00
16	201501	D4732-27P			Label : Various STC's As Per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 Ea	0 Ea	12 Ea	\$6.6666/Ea OCT 2 1 2019	\$80.00
17	201502	D4732-29P			Label : Various STC's As Per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs OCT 2 1 2019	\$80.00
18	201504	D4732-31P			Label : Various STC's As per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs OCT 2 1 2019	\$80.00
19	201505	D4732-33P			Label : Various STC's As Per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs OCT 2 1 2019	\$80.00
20	201506	D4732-35P			Label : Various STC's As Per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs OCT 2 1 2019	\$80.00
21	201507	D4732-37P			Label : Various STC's As Per Dwg D4732 Rev. B	Firmed X12	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs OCT 2 1 2019	\$80.00



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB044697



Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
22	201511	D4732-39P			Label : Various STC's As Per dwg D4732 Rev. B	Firmed <i>X12</i>	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs	\$80.00
23	201513	D4732-41P			Label : Various STC's As Per Dwg D4732 Rev. B	Firmed <i>X12</i>	-	10/21/19	12 pcs	0 pcs	12 pcs	\$6.6666/pcs	\$80.00

Grand Total: \$1,919.98

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Procurement Quality Clauses

- A005 RIGHT OF ENTRY
- A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)
- A012 CHEMICAL AND PHYSICAL TEST REPORTS
- A016 PERSONNEL QUALIFICATION
- A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)
- A026 CERTIFICATION OF MATERIAL CONFORMANCE
- A041 QUALITY MANAGEMENT SYSTEM
- A042 DART NOTIFICATION BY SUPPLIER
- A043 RETENTION OF QUALITY DOCUMENT
- A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
- A049 SUPPLIER AWARENESS

Plex 10/7/19 8:32 AM Dart.Lavoie.Chantal

Studio SL2

210 Main West
Hawkesbury, Ontario K6A 2H6
Canada

INVOICE

Invoice No.: 48721
Date: 10/11/2019
Ship Date:
Page: 1
Re: Order No.

Sold to:

Dart Aerospace Ltd

1270 Aberdeen
Hawkesbury, Ontario
K6A 1K7

Ship to:

Dart Aerospace Ltd

1270 Aberdeen
Hawkesbury, Ontario
K6A 1K7

Business No.: 825007651RT0001

Quantity	Description	Tax	Base Price	Disc %	Unit Price	Amount
12	D3428-1P.	H	6.6667		6.6667	80.00
24	D5079-1P.	H	6.6667		6.6667	160.00
12	D4732-1P.	H	6.6667		6.6667	80.00
12	D4732-3P.	H	6.6667		6.6667	80.00
12	D4732-5P.	H	6.6667		6.6667	80.00
12	D4732-7P.	H	6.6667		6.6667	80.00
12	D4732-9P.	H	6.6667		6.6667	80.00
12	D4732-11P.	H	6.6667		6.6667	80.00
12	D4732-13P.	H	6.6667		6.6667	80.00
12	D4732-15P.	H	6.6667		6.6667	80.00
12	D4732-17P.	H	6.6667		6.6667	80.00
12	D4732-19P.	H	6.6667		6.6667	80.00
12	D4732-21P.	H	6.6667		6.6667	80.00
12	D4732-23P.	H	6.6667		6.6667	80.00
12	D4732-25P.	H	6.6667		6.6667	80.00
12	D4732-27P.	H	6.6667		6.6667	80.00
12	D4732-29P.	H	6.6667		6.6667	80.00
12	D4732-31P.	H	6.6667		6.6667	80.00
12	D4732-33P.	H	6.6667		6.6667	80.00
12	D4732-35P.	H	6.6667		6.6667	80.00
12	D4732-37P.	H	6.6667		6.6667	80.00
12	D4732-39P.	H	6.6667		6.6667	80.00
12	D4732-41P.	H	6.6667		6.6667	80.00
PO# HB044697 Attn: Chantal Lavoie						
Subtotal:						1,920.00
H - HST HST						249.60
Studio SL2 HST: #HST						
Shipped By: Tracking Number:					Total Amount	2,169.60
Comment: WO26107					Amount Paid	0.00
Sold By:					Amount Owling	2,169.60

***** CERTIFICATE of CONFORMITY *****

Manufacture:

Studio SL2

Purchase order #:

HB044697

Packing Slip#

WO# 26107

Part #:

/

Drawing Rev:

Serial/Batch:

Description (Part Name): D3428-1P; 05679-1P

Quantity:

D4732-1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41

288

Certification:

We hereby certify that:

PLEASE
CHECK
BOX IF
REQUIRED

1. The above listed items were manufactured and/or inspected in accordance with applicable supplied drawings and/or specifications. ☒
2. All work was accomplished in accordance with the Dart Aerospace Ltd. purchase order. ☒
3. Results of all inspections, chemical or physical test, as well as other evidence, which shows the acceptability of raw materials, parts and/or assembly components are on file and available for inspection at any time. ☒
4. All material certification or copies of purchase orders of the material used to manufacture this component have been attached to this document. ☒

Record Expiry Date of Materials: Oct 11, 2020

Authority:

3M

Approval:

Valerie Young

Date: (yyyy/mm/dd)

2019/10/11

Signature:



Title:

Office Admin.

DAS
40
9-89

IJ35-10
IJ35-20**Quick Links**

[3M Graphics Warranties](#)
[Technical Information Selector](#)
[Safety Data Sheets \(SDS\)](#)
[Flammability \(ASTM E84 Reports\)](#)
[Videos](#)

Product Description

- For Solvent, Eco-Solvent UV and Latex Inkjet Printing and Screen Printing
- 3.2-mil vinyl film

Product Features

- Available in gloss and matte finishes
- Pressure-sensitive adhesive
- Permanent
- Expected Performance Life of 5 years (unwarranted period for unprinted film with no graphic protection, applied to a flat, vertical, outdoor surface)

Recommended Types of Graphics and End Uses

- Short to long-term, indoor and outdoor promotional graphics
- Signs, trade show and point-of-purchase displays
- Exhibits and architectural applications

Graphic Protection

Graphic protection can improve the appearance, performance and durability of your graphic. Always use only the graphic protection options recommended in this Bulletin for this film.

- [3M™ Scotchcal™ Gloss Overlamine 8508](#)
- [3M™ Scotchcal™ Luster Overlamine 8509](#)
- [3M™ Scotchcal™ Matte Overlamine 8510](#)

Characteristics

These are typical values for unprocessed product. Processing may change the values.

Physical Characteristics

Characteristic	Value
Material	Vinyl
Film Color	White, opaque
Thickness	Without adhesive: 3.25 mil (0.081 mm) With adhesive: 4.0 mil (0.102 mm)
Adhesive	Pressure sensitive
Adhesive Color	Gray
Liner	Polycoated paper
Flammability	ASTM E84 reports: IJ35-10 and IJ35-20, or go to the On-line Product Catalog at 3Mgraphics.com

Application Characteristics

Characteristic	Value
Finished Graphic Application Recommendation	Surface type: Smooth, flat and simple curved surfaces Substrate type: Metal, rigid plastic and painted surfaces Application temperature: 40° – 100°F (4° – 38°C) air and substrate Application method: Dry
Temperature Range After Application	-59 °F to +192 °F (-50 °C to +90 °C) (not for extended periods of time at the extremes)
Graphic Removal	Permanent

Warranty Information

Warranty Coverage Overview

The warranty coverage for eligible graphics is based on the user both reading and following all applicable and current 3M Graphics Product and Instruction Bulletins. The warranty period for eligible graphics is as stated in the 3M Graphics Warranties Matrices at the time that the film was purchased. Information found at 3MGraphics.com/warranties includes:

- [3M Graphics Warranties Bulletin](#)
 - This bulletin contains information on limitations and exceptions, and warranty period reductions for 3M Graphics Warranties. The warranty period may be reduced and stipulations may apply for certain constructions, applications, and graphic exposures as covered in this Bulletin.
- [3M Graphics Warranties Selector](#)
 - Use this selector to search for your vertical warranty period by product type, ink type, film name, and/or ink/prINTER platform.
- [U.S. Desert Southwest Region Map](#)
 - Use this map of hot, arid desert areas to determine if you are subject to reduced warranted durabilities.

The warranties set forth in this Bulletin are made in lieu of all other express or implied warranties, including any implied warranty of merchantability, fitness for a particular purpose, or arising out of a course of dealing, custom, or usage of trade.

3M Basic Product Warranty

3M Graphics Products are warranted to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in its applicable 3M Graphics Product Bulletin and as further set forth in the [3M Graphics Warranties Bulletin](#).

Limited Remedy

The limited remedy applicable to each warranty is addressed in the 3M Graphics Warranties Bulletin found at 3MGraphics.com/warranties.

Limitation of Liability

Except where prohibited by law, 3M SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE TO PURCHASER OR USER FOR ANY DIRECT (EXCEPT FOR THE LIMITED REMEDY PROVIDED IN THE 3M GRAPHICS WARRANTIES BULLETIN), INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LABOR, NON-3M MATERIAL CHARGES, LOSS OF PROFITS, REVENUE, BUSINESS, OPPORTUNITY, OR GOODWILL) RESULTING FROM OR IN ANY WAY RELATED TO 3M'S GRAPHICS PRODUCTS, SERVICES, OR THIS BULLETIN. This limitation of liability applies regardless of the legal or equitable theory under which such losses or damages are sought.

Additional Limitations

See the 3M Graphics Warranties Bulletin at 3MGraphics.com/warranties, for terms, additional limitations of your warranty, if any, information on reduced warranties for different exposures, and limitations of liability.

Factors that Affect Graphic Performance Life

The actual performance life of a graphic is affected by:

- the combinations of graphics materials used.
- complete ink drying or curing.
- selection, condition and preparation of the substrate.
- surface texture.
- application methods.
- angle and direction of sun exposure.
- environmental conditions.
- cleaning or maintenance methods.

Graphics Manufacturing

CAUTION

Before using any equipment, always read the manufacturer's instructions for safe operation.

Inkjet Printing

Always read and follow the ink manufacturer's written instructions on usage.

- **Sheeted film:** When used on a flat-bed inkjet printer, sheeted film may produce printing defects.
- **Ink limiting:** The recommended maximum ink limit is 250%.
- **If sheeted or stacked graphics will be stored:** If you plan to store sheeted and stacked finished graphics for an extended period of times, leave an unprinted margin (about 1/4 inch) to allow for possible shrinkage before trimming the graphic.

Do not exceed the recommended total ink coverage for the ink series used on this film. Having too high a total physical ink amount on the film results in media characteristic changes, incomplete drying, overlamine lifting, and/or poor graphic performance.

Completely Dry Graphics

IMPORTANT NOTE

Incomplete drying or curing can result in graphic failure including curling, increased shrinkage and adhesion failure, which are not covered under any 3M Graphic Warranty.

See the ink's 3M Product and Instruction Bulletin for more details.

Screen Printing

Formulations and processing conditions can affect ink durability. Refer to the Product and Instruction Bulletins for your ink for limitations and proper usage.

Cutting

See [3M Instruction Bulletin 4.1](#) for Sheeting, Scoring and Film Cutting details.

Graphic Protection

Graphic protection may improve the appearance, performance and durability of the graphic. Click on the graphic protection options listed in Product Bulletin or see the [3M Graphics Market Product Catalog](#), for more information.

IMPORTANT NOTE

During installation, scratches may occur on films without graphic protection.

Application and Installation

In addition to other 3M Bulletins specified in this document, the following Bulletins provide details that you may need to successfully apply a graphic.

- [3M Instruction Bulletin 4.22](#). Hot and Cold Roll Lamination for 3M Overlaminates.
- [3M Instruction Bulletin 5.1](#) Select and Prepare Substrates for Graphic Application
- [3M Instruction Bulletin 5.19](#). Lamination, Application & Maintenance of Floor Graphics. Complete the Surface Preparation procedure found in this Instruction Bulletin prior to applying a graphic to a surface.
- [3M Instruction Bulletin 5.5](#) Application, General Procedures for Interior and Exterior Dry Application
- [3M Instruction Bulletin 6.5](#) Storage, Handling, Maintenance, and Removal of Films and Sheetings

Pressure-sensitive Adhesive

This film has a pressure-sensitive adhesive. It bonds to the surface even with light pressure and cannot be repositioned.

Maintenance and Cleaning

Use a cleaner designed for high-quality painted surfaces. The cleaner must be wet, non-abrasive, without solvents, and have a pH value between 3 and 11 (neither strongly acidic nor strongly alkaline). See [3M Instruction Bulletin 6.5](#) for details.

Shelf Life, Storage and Shipping

Shelf Life

The shelf life is **never more than 2 years** from the date of manufacture on the original box.

If you process the film, the shelf life is changed to **1 year** from the processing date, but not later than the 2 year maximum from the manufacturing date.

Storage Conditions

- 90 °F (32 °C) maximum
- Out of sunlight
- Clean, dry area
- Original container
- Bring the film to print room temperature before using

Shipping Finished Graphics

Flat, or rolled printed side out on 5 inch (13 cm) or larger core. This helps prevent the liner, if used, from popping off.

Health and Safety

CAUTION

When handling any chemical products, read the manufacturer's container labels and the Safety Data Sheets (SDS) for important health, safety and environmental information. To obtain SDS sheets for 3M products go to 3M.com/SDS, or by mail or in case of an emergency, call 1-800-364-3577 or 1-651-737-6501.

When using any equipment, always follow the manufacturer's instructions for safe operation.

Bulletin Change Summary

For the most current 3M Technical Information available to successfully use this product, please view this Bulletin electronically and click on the blue underlined links to view the relevant documents.

Release J, NOV-2016:

- Updated Thickness. See "Physical Characteristics" on page 1.

3M Commercial
Solutions
3M Center
Building 220-12E-04
St. Paul, MN 55144-1000
Phone 1-888-328-3908
Web 3M.com/Graphics

3M Canada
PO Box 5757
London, ON N6A 4T1
1-800-265-1840
Fax 519-452-6245

3M México S.A. de C.V.
Av. Santa Fe No. 55
Col. Santa Fe, Del. Alvaro
Obregón
México D.F. 01210
General 5255-5270-0400
Fax 5255-5270-2277

3M Puerto Rico, Inc.
350 Chardon Avenue
Suite 1100
San Juan, PR 00918
General 787-620-3000
Fax 787-620-3018

3M and Scotchcal are trademarks of 3M Company. All other trademarks are the property of their respective owners.

